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L11	l7 with (allocat\$4 near6 (directory near4 (entry or location)))	59	L11
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L9	(coheren\$3 near4 control\$4) with l7	52	L9
L8	(directory or map\$4) near8 ((main or common or system or shared) adj3 (memory or storage))	6726	L8
L7	(directory or map\$4) near3 cach\$3	5388	L7
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L4	L3 and l2	58	L4
L3	(coheren\$3 near4 control\$4) with l1	79	L3
L2	(directory or map\$4) near8 ((main or common or system or shared) adj3 (memory or storage))	6613	L2
L1	(directory or map\$4) near3 cach\$3	5743	L1

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Relevance scale ☐ ☐ ☐ ☐ ☐**1** [Parallel execution of prolog programs: a survey](#)

Gopal Gupta, Enrico Pontelli, Khayri A.M. Ali, Mats Carlsson, Manuel V. Hermenegildo

July 2001 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 23 Issue 4

Full text available: pdf(1.95 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Since the early days of logic programming, researchers in the field realized the potential for exploitation of parallelism present in the execution of logic programs. Their high-level nature, the presence of nondeterminism, and their referential transparency, among other characteristics, make logic programs interesting candidates for obtaining speedups through parallel execution. At the same time, the fact that the typical applications of logic programming frequently involve irregular computatio ...

Keywords: Automatic parallelization, constraint programming, logic programming, parallelism, prolog

2 [A scalable coherent cache system with a dynamic pointing scheme](#)

W. Michael

December 1992 **Proceedings of the 1992 ACM/IEEE conference on Supercomputing**

Full text available: pdf(793.25 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**3** [Using meta-level compilation to check FLASH protocol code](#)

Andy Chou, Benjamin Chelf, Dawson Engler, Mark Heinrich

November 2000 **Proceedings of the ninth international conference on Architectural support for programming languages and operating systems**, Volume 34 , 28 Issue 5 , 5

Full text available: pdf(297.02 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Building systems such as OS kernels and embedded software is difficult. An important source of this difficulty is the numerous rules they must obey: interrupts cannot be disabled for ~too long," global variables must be protected by locks, user pointers passed to OS code must be checked for safety before use, etc. A single violation can crash the system, yet typically these invariants are unchecked, existing only on paper or in the implementor's mind. This paper is a case study in how system impl ...

4 [Using meta-level compilation to check FLASH protocol code](#)

Andy Chou, Benjamin Chelf, Dawson Engler, Mark Heinrich

November 2000 **ACM SIGPLAN Notices**

Full text available:  pdf(1.39 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Building systems such as OS kernels and embedded software is difficult. An important source of this difficulty is the numerous rules they must obey: interrupts cannot be disabled for "too long," global variables must be protected by locks, user pointers passed to OS code must be checked for safety before use, etc. A single violation can crash the system, yet typically these invariants are unchecked, existing only on paper or in the implementor's mind. This paper is a case study in how system impl ...

5 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**Full text available:  pdf(4.21 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

6 [Technique for automatically correcting words in text](#)

Karen Kukich

December 1992 **ACM Computing Surveys (CSUR)**, Volume 24 Issue 4Full text available:  pdf(6.23 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Research aimed at correcting words in text has focused on three progressively more difficult problems: (1) nonword error detection; (2) isolated-word error correction; and (3) context-dependent word correction. In response to the first problem, efficient pattern-matching and n-gram analysis techniques have been developed for detecting strings that do not appear in a given word list. In response to the second problem, a variety of general and application-specific spelling cor ...

Keywords: n-gram analysis, Optical Character Recognition (OCR), context-dependent spelling correction, grammar checking, natural-language-processing models, neural net classifiers, spell checking, spelling error detection, spelling error patterns, statistical-language models, word recognition and correction

7 [Dynamic switching of coherent cache protocols and its effects on Doacross loops](#)

Takashi Matsumoto, Kei Hiraki

August 1993 **Proceedings of the 7th international conference on Supercomputing**Full text available:  pdf(982.52 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In multiprocessor systems, overheads caused by interprocessor communication and synchronization have been one of the largest obstacles for efficient execution of parallel programs. To reduce these overheads in shared-memory/shared-bus multiprocessors, we have proposed two hardware mechanisms: the Inter-Cache Snoop Control Mechanism (ICSCM), which dynamically switches snoop-protocols for improving shared-bus utilization, and the Mechanism for Integrated Synchronization and Communication (MIS ...

8 [Customized information extraction as a basis for resource discovery](#)

Darren R. Hardy, Michael F. Schwartz

May 1996 **ACM Transactions on Computer Systems (TOCS)**, Volume 14 Issue 2Full text available:  pdf(1.91 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

Indexing file contents is a powerful means of helping users locate documents, software, and


other types of data among large repositories. In environments that contain many different types of data, content indexing requires type-specific processing to extract information effectively. We present a model for type-specific, user-customizable information extraction, and a system implementation called Essence. This software structure allows users to associate specialized extracti ...

Keywords: Internet, distributed indexing, resource discovery

9 An Unclever Time-Sharing System

Caxton C. Foster

January 1971 **ACM Computing Surveys (CSUR)**, Volume 3 Issue 1

Full text available:  pdf(1.85 MB)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes the internal structure of a time-sharing system in some detail. This system is dedicated to providing remote access, and has a simple file structure. It is intended for use in a university type environment where there are many short jobs that will profit from one- or two-second turnaround. Despite its simplicity, this system can serve as a useful introduction to the problems encountered by the designers of any time-sharing system. Included are a discussion of the comman ...

10 At the Forge: Writing Modules for mod_perl

Reuven M. Lerner

April 1999 **Linux Journal**


Full text available:  html(27.87 KB)

Additional Information: [full citation](#), [references](#), [index terms](#)

11 Pen computing: a technology overview and a vision

André Meyer

July 1995 **ACM SIGCHI Bulletin**, Volume 27 Issue 3

Full text available:  pdf(5.14 MB)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions. Starting with a short historic ...

12 A cryptographic file system for UNIX

Matt Blaze

December 1993 **Proceedings of the 1st ACM conference on Computer and communications security**

Full text available:  pdf(955.62 KB)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Although cryptographic techniques are playing an increasingly important role in modern computing system security, user-level tools for encrypting file data are cumbersome and suffer from a number of inherent vulnerabilities. The Cryptographic File System (CFS) pushes encryption services into the file system itself. CFS supports secure storage at the system level through a standard Unix file system interface to encrypted files. Users associate a cryptographic key with the directories ...

13 An overview of the Andrew message system

J. Rosenberg, C. F. Everhart, N. S. Borenstein

August 1987 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM workshop on Frontiers in computer communications technology**, Volume 17 Issue 5

Full text available:  pdf(1.16 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

14 Unified versioning through feature logic

Andreas Zeller, Gregor Snelting

October 1997 **ACM Transactions on Software Engineering and Methodology (TOSEM)**,
Volume 6 Issue 4

Full text available:  pdf(699.55 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Software configuration management (SCM) suffers from tight coupling between SCM versioning models and the imposed SCM processes. In order to adapt SCM tools to SCM processes, rather than vice versa, we propose a unified versioning model, the version set model. Version sets denote versions, components, and configurations by feature terms, that is, Boolean terms over (feature : value)-attributions. Through feature logic, we ...

Keywords: feature logic, version sets

15 Technical papers: Aiding knowledge capture by searching for extensions of knowledge models

David B. Leake, Ana Maguitman, Thomas Reichherzer, Alberto J. Cañas, Marco Carvalho, Marco Arguedas, Sofia Brenes, Tom Eskridge

October 2003 **Proceedings of the international conference on Knowledge capture**

Full text available:  pdf(458.76 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)


Electronic concept mapping tools empower experts to play an active role in the knowledge capture process, and provide a medium for building richly connected multimedia *knowledge models*---sets of linked concept maps and resources about a particular domain. Knowledge models are intended to be used as a means for sharing knowledge among humans, not as carefully-crafted knowledge bases upon which machines will be performing inference. However, users must still confront the questions of what t ...

Keywords: case-based reasoning, concept mapping, context, knowledge acquisition tools, knowledge engineering and modeling methodologies, knowledge management environments, retrieval

16 Referential communication in AUTONOTE, a personal information retrieval system

William E. Linn, Walter Reitman

January 1971 **Proceedings of the 1971 26th annual conference**

Full text available:  pdf(1.17 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper is concerned with the mechanisms of human intelligence and natural language communication, and with the design of an interactive computer program that incorporates and utilizes analogous mechanisms to improve man-machine communication. AUTONOTE2 is an improved personal information retrieval system. It includes, in addition to AUTONOTE (a presently running system), (1) mechanisms allowing the user to employ certain kinds of noun phrases to describe the items he wishes to store and ...

Keywords: AUTONOTE, AUTONOTE2, Artificial intelligence, Computer understanding, Information retrieval, Man-machine communication, Natural language processing, Referential communication

17 Automated techniques for managing collections: Managing distributed collections: evaluating web page changes, movement, and replacement

Zubin Dalal, Suvendu Dash, Pratik Dave, Luis Francisco-Revilla, Richard Furuta, Unmil Karadkar, Frank Shipman

June 2004 **Proceedings of the 2004 joint ACM/IEEE conference on Digital libraries**

Full text available:  pdf(329.43 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Distributed collections of Web materials are common. Bookmark lists, paths, and catalogs such as Yahoo! Directories require human maintenance to keep up to date with changes to the underlying documents. The Walden's Paths Path Manager is a tool to support the maintenance of distributed collections. Earlier efforts focused on recognizing the type and degree of change within Web pages and identifying pages no longer accessible. We now extend this work with algorithms for evaluating drastic changes ...

Keywords: change detection, collection management, document location

18 The design and applications of a context service

Hui Lei, Daby M. Sow, John S. Davis, Guruduth Banavar, Maria R. Ebling
October 2002 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 6
Issue 4

Full text available:  [pdf\(87.81 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Context awareness enables applications to adapt themselves to their computing environment in order to better suit the needs of the user and the tasks. This paper describes a general middleware infrastructure for context collection and dissemination, realized as a Context Service. By way of two example applications, this paper also illustrates how context information provided by our context service can be exploited to enhance the user experience. These two applications are built upon the abstract ...

19 National id card: the next generation: The US/Mexico border crossing card (BCC): a case study in biometric, machine-readable id

Andrew Schulman
April 2002 **Proceedings of the 12th annual conference on Computers, freedom and privacy**

Full text available:  [htm\(187.31 KB\)](#) Additional Information: [full citation](#), [index terms](#)

20 PHRED: a generator for natural language interfaces

Paul S. Jacobs
October 1985 **Computational Linguistics**, Volume 11 Issue 4

Full text available:  [pdf\(2.16 MB\)](#)  Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)
[Publisher Site](#)

PHRED (PHRasal English Diction is a natural language generator designed for use in a variety of domains. It was constructed to share a knowledge base with PHRAN (PHRasal ANalyzer) as part of a real-time user-friendly interface. The knowledge base consists of *pattern-concept pairs*, i.e., associations between linguistic structures and conceptual templates. Using this knowledge base, PHRED produces appropriate and grammatical natural language output from a conceptual representation. PHRED and ...

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